

Amendments to the Claims

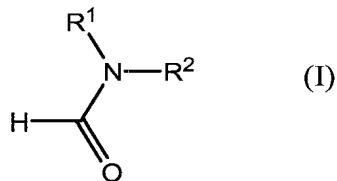
Please cancel claims 35, 37, 38 and 41 without prejudice. Please amend the remaining claims as shown below in the Listing of Claims.

Listing of Claims

1-20. (Cancelled)

21. (Currently amended) A process for preparing 2-amino-4,6-dichloro-5-formamidopyrimidine from 2,5-diamino-4,6-dihydroxypyrimidine, or a salt or tautomeric form thereof, comprising:

a) reacting said 2,5-diamino-4,6-dihydroxypyrimidine, salt or tautomeric form with a chlorinating agent and a formamide of formula (I)



wherein

R¹ and R² are each independently: a C₁-C₄-alkyl radical; or are joined together to form the ring -(CH₂)_n- where n is an integer from 4 to 6; or together form the ring -(CH₂)₂-O-(CH₂)₂-;

wherein the reaction is carried out without the addition of a solvent and at a temperature of from 50 to 130°C;

b) reacting the product produced in the reaction of step a) with water at a temperature of from ~~0 to 100~~ 20 to 60 °C and then adjusting the pH to between ~~1.0~~ 2.0 and ~~6.0~~ 5.0 with an inorganic base; and

c) hydrolyzing with water in the absence of an added solvent, the aqueous reaction mixture produced in step b) at a temperature from 70 to 120°C to give 2-amino-4,6-dichloro-5-formamidopyrimidine; and
wherein said process is carried out without the isolation of intermediates.

22. (Previously presented) The process of claim 21, wherein the starting material used is 2,5-diamino-4,6-dihydroxypyrimidine in the form of a hemisulfate, hydrochloride monohydrate or as an anhydrous hydrochloride.

23. (Previously presented) The process of claim 21, wherein the starting material used is anhydrous 2,5-diamino-4,6-dihydroxypyrimidine hydrochloride.

24. (Previously presented) The process of claim 21, wherein said chlorinating agent is an acid chloride.

25. (Previously presented) The process of claim 24, wherein said chlorinating agent is selected from the group consisting of phosgene; oxalyl chloride; chloromethylene-dimethylammonium chloride; thionyl chloride; sulfuryl chloride; phosphorus trichloride; phosphorus pentachloride; and phosphorus oxychloride.

26. (Previously presented) The process of claim 21, wherein the formamide of formula (I) is first reacted with said chlorinating agent and 2,5-diamino-4,6-dihydroxypyrimidine is then added.

27. (Previously presented) The process of claim 21, wherein the formamide of formula I is selected from the group consisting of: N,N-dimethylformamide; N-formylpyrrolidine; N-formylpiperidine; N-formylmorpholine; and N,N-dimethylformamide.

28. (Previously presented) The process of claim 21, wherein from 1.0 to 5.0 mol of formamide of formula (I) are used per mole of 2,5-diamino-4,6-dihydroxypyrimidine.

29. (Previously presented) The process of claim 28 wherein from 3.0 to 7.0 mol of chlorinating agent are used per mole of 2,5-diamino-4,6-dihydroxypyrimidine.
30. (Previously presented) The process of claim 21, wherein the reaction step a) is carried out within a temperature range of from 70 to 110°C.
31. (Previously presented) The process of claim 21, wherein the inorganic base used in step b) is a base which forms soluble chloride salts.
32. (Previously presented) The process of claim 21, wherein the inorganic base used in step b) is selected from the group consisting of: sodium hydroxide solution; sodium hydroxide; sodium carbonate; sodium hydrogencarbonate; potassium hydroxide solution; potassium hydroxide; potassium carbonate; and potassium hydrogen-carbonate.
33. (Previously presented) The process of claim 32, wherein the inorganic base used in step b) is sodium hydroxide solution.
34. (Previously presented) The process of claim 21, wherein from 2 to 3 mol of inorganic base are used per mole of chlorinating agent.
35. (Cancelled)
36. (Currently amended) The process of claim 35 21, wherein, in the neutralization in step b), pH is adjusted to between 3.0 and 4.0.
- 37-38. (Cancelled).
39. (Currently amended) The process of claim 37 21, wherein the hydrolysis in step c) is carried out at a temperature of 80 to 100°C.
- 40-45. (Cancelled)